

Document Log Item

Addressing	
From	To
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Description Form Used: Memo	
Subject	Date/Time
Pago Pago Harbor Mercury Concentrations	05/24/2007 08:44 AM
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2	246,253
NPM	Contributor
	Marcela VonVacano
Processing	
Comments	

Body

Document Body

Sara,

Attached is a spreadsheet showing the past 6+ years of monitoring data for Pago Pago Harbor for mercury. Note the following:

The sheet labeled Mercury (1) provides calculations for all data collected.

The sheet labeled Mercury (2) provides calculations with outliers (3 standard deviations above the mean) removed.

Three of the four outliers are from the deep sample from the reference station (Station 5 - 120-foot depth). This station and depth is consistently higher than other samples but we do not know why. We did a series of tests to eliminate equipment contamination as a source - so it appears to be real. One can only speculate as to the reason. The other outlier is from a farfield station at 120 feet.

The outlier values cannot be attributed to the cannery discharge, and are below the ASWQS.

To evaluate a mixing zone it is my belief that we should use only Stations 8 and 8A as representative of the water available for dilution. The maximum value for these stations is 0.0193 ug/l. I used 0.0232 ug/l which is a value from within the ZID, and is therefore a conservative approach.

Also attached is a station location map for quick reference.

Call or email with questions.



Steve - RW Mercury Summary 2001-2007-070524.xls - RW Station Locations.ppt